

SCHEDULE 2.3

TECHNICAL REFERENCE SCHEDULE

Unbundled Network Elements

Unbundled Loop Transmission

Bellcore TA-NWT-000393
ANSI T1.413-1995 Specifications
AM TR-TMO-000122
AM TR-TMO-000123
Bellcore TR-NWT-000393
ANSI T1.102-1993, American National Standard for Telecommunication - Digital Hierarchy
- Electrical Interfaces
Bellcore Technical Requirement TR-NWT-000499, Issue 5, December 1993, section 7
ANSI T1.413-1995
ANSI T1E1 Committee Technical report Number 28

Local Switching

Bellcore FR-NWT-000064 (Local Switching Systems General Requirements)
Bellcore GR-1432-CORE (TCAP)
Bellcore GR-905-CORE (ISUP)
Bellcore GR-1429-CORE (Call Management)
Bellcore GR-1357-CORE (Switched Fractional DS1)
Bellcore GR-1428-CORE (Toll Free Service)
Bellcore GR-1597-CORE (Calling Name)
Bellcore GR-954-CORE (Line Information Database)
Bellcore GR-2863-CORE (Advanced Intelligent Network)
GR-1298-CORE, AIN Switching System Generic Requirements
GR-1299-CORE, AIN Switch-Service Control Point (SCP)/Adjunct Interface Generic Requirements
TR-NWT-001284, AIN 0.1 Switching System Generic Requirements
SR-NWT-002247, AIN Release 1 Update
ANSI standards Q.931, Q.932
Bellcore TR-NWT-08
Bellcore TR-NWT-303
TR-NWT-000393, January 1991, Generic Requirements for ISDN Basic Access Digital Subscriber Lines
Bellcore TR-NWT-303

Interoffice Transmission Facilities

AM TR-NIS-000111

AM RT-NIS 000133

ANSI T1.101-1994, American National Standard for Telecommunications -Synchronization Interface Standard Performance and Availability

ANSI T1.102-1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces

ANSI T1.105-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats

ANSI T1.105.01-1995, American National Standard for Telecommunications -Synchronous Optical Network (SONET) - Automatic Protection Switching

ANSI T1.105.02-1995, American National Standard for Telecommunications -Synchronous Optical Network (SONET) - Payload Mappings

ANSI T1.105.03-1994, American National Standard for Telecommunications -Synchronous Optical Network (SONET) - Jitter at Network Interfaces

ANSI T1.105.03a-1995, American National Standard for Telecommunications -Synchronous Optical Network (SONET): Jitter at Network Interfaces - DS1 Supplement

ANSI T1.105.04-1995, American National Standard for Telecommunications -Synchronous Optical Network (SONET) - Data Communication Channel Protocols and Architectures

ANSI T1.105.05-1994, American National Standard for Telecommunications -Synchronous Optical Network (SONET) - Tandem Connection

ANSI T1.106-1988, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (Single Mode)

ANSI T1.107-1988, American National Standard for Telecommunications - Digital Hierarchy - Formats Specifications

ANSI T1.107a-1990, American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications (DS3 Format Applications)

ANSI T1.107b-1991, American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications

ANSI T1.117-1991, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (SONET) (Single Mode - Short Reach)

ANSI T1.119-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications

ANSI T1.119.01-1995, American National Standard for Telecommunications -Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications Protection Switching Fragment

ANSI T1.119.02-199x, American National Standard for Telecommunications -Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications Performance Monitoring Fragment

ANSI T1.231-1993, American National Standard for Telecommunications - Digital Hierarchy - Layer 1 In-Service Digital Transmission performance monitoring

ANSI T1.403-1989, Carrier to Customer Installation, DS1 Metallic Interface Specification

ANSI T1.404-1994, Network-to-Customer Installation - DS3 Metallic Interface Specification

Bellcore FR-440 and TR-NWT-000499, Transport Systems Generic Requirements (TSGR): Common Requirements

Bellcore GR-820-CORE, Generic Transmission Surveillance: DS1 & DS3 Performance

Bellcore GR-253-CORE, Synchronous Optical Network Systems (SONET); Common Generic Criteria

Bellcore TR-NWT 000507, Transmission, Section 7, Issue 5 (Bellcore, December 1993). (A module of LSSGR, FR-NWT-000064.)

Bellcore TR-NWT-000776, Network Interface Description for ISDN Customer Access

Bellcore TR-INS-000342, High-Capacity Digital Special Access Service-Transmission Parameter Limits and Interface Combinations, Issue 1, February 1991

Signaling Transfer Points (STPs)

ANSI T1.111.2

ANSI T1.111.3

ANSI T1.111.4

ANSI T1.112

ANSI T1.112.4

ANSI T1.118

ANSI T1.111.6

ANSI T1.112.5

GR-2863-CORE, CCS Network Interface Specification Supporting Advanced Intelligent Network (AIN)

GR-2902-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll-Free Service Using Advanced Intelligent Network (AIN)

Bellcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP)

Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP)

ANSI T1.111-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP)

ANSI T1.111A-1994, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP) Supplement

ANSI T1.112-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Signaling Connection Control Part (SCCP)
ANSI T1.115-1990, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Monitoring and Measurements for Networks
ANSI T1.116-1990, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Operations, Maintenance and Administration Part (OMAP)
ANSI T1.118-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Intermediate Signaling Network Identification (ISNI)
Bellcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP)
Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP)

Service Control Points (SCPs)/Call-Related Databases

SR-TSV-002275 (BOC Notes on the Ameritech Networks, SR-TSV-002275, Issue 2 (Bellcore, April 1994))
GR-246-CORE, Bell Communications Research Specification of Signaling System Number 7, ISSUE 1 (Bellcore, December 1995)
GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP). (Bellcore, March 1994)
GR-954-CORE, CCS Network Interface Specification (CCSNIS) Supporting Line Information Database (LIDB) Service 6, Issue 1, Rev. 1 (Bellcore, October 1995)
GR-1149-CORE, OSSGR Section 10: System Interfaces, Issue 1 (Bellcore, October 1995) (Replaces TR-NWT-001149)
GR-1158-CORE, OSSGR Section 22.3: Line Information Database 6, Issue (Bellcore, October 1995)
GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service (Bellcore, May 1995)
BOC Notes on Ameritech Networks, SR-TSV-002275, ISSUE 2 (Bellcore, April 1994)
GR-1280-CORE, AIN Service Control Point (SCP) Generic Requirements

Tandem Switching

Bellcore TR-TSY-000540, Issue 2R2, Tandem Supplement, 6/1/90
GR-905-CORE
GR-1429-CORE
GR-2863-CORE
GR-2902-CORE

Performance Standards

Bellcore FR-64, LATA Switching Systems Generic Requirements (LSSGR)

Bellcore TR-NWT-000499, Issue 5, Rev 1, April 1992, Transport Systems Generic Requirements (TSGR): Common Requirements

Bellcore TR-NWT-000418, Issue 2, December 1992, Generic Reliability Assurance Requirements For Fiber Optic Transport Systems

Bellcore TR-NWT-000057, Issue 2, January 1993, Functional Criteria for Digital Loop Carriers Systems

Bellcore TR-NWT-000507, Issue 5, December 1993, LSSGR - Transmission, Section 7

Bellcore TR-TSY-000511, Issue 2, July 1987, Service Standards, a Module (Section 11) of LATA Switching Systems Generic Requirements (LSSGR, FR-NWT-000064)

Bellcore TR-NWT-000393, January 1991, Generic Requirements for ISDN Basic Access Digital Subscriber Lines

Bellcore TR-NWT-000909, December 1991, Generic Requirements and Objectives for Fiber In The Loop Systems

Bellcore TR-NWT-000505, Issue 3, May 1991, LSSGR Section 5, Call Processing

Bellcore LSSGR TR-TSY-000511

Bellcore TR-NWT-001244, Clocks for the Synchronized Network: Common Generic Criteria ANSI T1.105-1995

Network Interface Device

Bellcore Technical Advisory TA-TSY-000120, "Customer Premises or Network Ground Wire"

Bellcore Generic Requirement GR-49-CORE, "Generic Requirements for Outdoor Telephone Network Interface Devices"

Bellcore Technical Requirement TR-NWT-00239, "Indoor Telephone Network Interfaces"

Bellcore Technical Requirement TR-NWT-000937, "Generic Requirements for Outdoor and Indoor Building Entrance"

Interconnection

Trunking Interconnection

GR-317-CORE, Switching System generic requirements for Call Control Using the Integrated Services Digital Network User Part (ISDNUP), Bellcore, February, 1994

GR-394-CORE, Switching System generic requirements for Interexchange Carrier Interconnection Using the Integrated Services Digital Network User Part (ISDNUP), Bellcore, February, 1994

FR-NWT-000064, LATA Switching Systems Generic Requirements (LSSGR), Bellcore, 1994
Edition

ANSI T1.111

ANSI T1.112

ANSI T1.113

Bellcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP)

Bellcore GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll-Free Service

Bellcore GR-1429-CORE, CCS Network Interface Specification (CCSNIS) Supporting Call Management Services

Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP)

ANSI T1.110-1992, American National Standard Telecommunications - Signaling System Number 7 (SS7) - General Information;

ANSI T1.111-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP)

ANSI T1.111A-1994, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP) Supplement

ANSI T1.112-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Signaling Connection Control Part (SCCP)

ANSI T1.113-1995, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Integrated Services Digital Network (ISDN) User Part

ANSI T1.114-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Transaction Capabilities Application Part (TCAP)

ANSI T1.115-1990, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Monitoring and Measurements for Networks

ANSI T1.116-1990, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Operations, Maintenance and Administration Part (OMAP)

ANSI T1.118-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Intermediate Signaling Network Identification (ISNI)

Bellcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP)

Bellcore GR-954-CORE, CCS Network Interface Specification (CCSNIS) Supporting Line Information Database (LIDB) Service

Bellcore Special Report SR-TSV-002275, BOC Notes on the LEC Networks-Signaling

Ameritech Supplement AM-TR-OAT-000069, Common Channel Signaling Network Interface Specifications

Bellcore Standard FR-NWT-000476

ANSI Standard T1.206

Electrical/Optical Interfaces

Bellcore Technical Publication TR-INS-000342, High Capacity Digital Special Access Service, Transmission Parameter Limits and Interface Combinations;
Ameritech Technical Publication TR-NIS-000111, Ameritech 0C3, 0C12 and 0C48 Service Interface Specifications; and
Ameritech Technical Publication AM-TR-NIS-000133, Ameritech 0C3, 0C12 and 0C48 Dedicated Ring Service Interface Specifications.

Collocation

Bellcore Network Equipment Building Systems (NEBS) standards TR-EOP-000063
National Electrical Code (NEC) use latest issue
TA-NPL-000286, NEBS Generic Engineering Requirements for System Assembly and Cable Distribution, Issue 2 (Bellcore, January 1989)
TR-EOP-000063, Network Equipment-Building System (NEBS) Generic Equipment Requirements, Issue 3, March 1988
TR-NWT-000840, Supplier Support Generic Requirements (SSGR), (A Module of LSSGR, FR-NWT-000064), Issue 1 (Bellcore, December 1991)
TR-NWT-001275 Central Office Environment Installations/Removal Generic Requirements, Issue 1, January 1993
Institute of Electrical and Electronics Engineers (IEEE) Standard 383, IEEE Standard for Type Test of Class 1 E Electrical Cables, Field Splices, and Connections for Nuclear Power Generating Stations
National Electrical Code (NEC) use latest issue
TA-NPL-000286, NEBS Generic Engineering Requirements for System Assembly and Cable Distribution, Issue 2 (Bellcore, January 1989)
TR-EOP-000063, Network Equipment-Building System (NEBS) Generic Equipment Requirements, Issue 3, March 1988
TR-EOP-000151, Generic Requirements for 24-, 48-, 130- and 140- Volt Central Office Power Plant Rectifiers, Issue 1 (Bellcore, May 1985)
TR-EOP-000232, General Requirements for Lead-Acid Storage Batteries, Issue 1 (Bellcore, June 1985)
TR-NWT-000154, General Requirements for 24-, 48-, 130-, and 140- Volt Central Office Power Plant Control and Distribution Equipment, Issue 2 (Bellcore, January 1992)
TR-NWT-000295, Isolated Ground Planes: Definition and Application to Telephone Central Offices, Issue 2 (Bellcore, July 1992)
TR-NWT-000840, Supplier Support Generic Requirements (SSGR), (A Module of LSSGR, FR-NWT-000064), Issue 1 (Bellcore, December 1991)

TR-NWT-001275, Central Office Environment Installations/Removal Generic Requirements,
Issue 1, January 1993
Underwriters' Laboratories Standard, UL 94

SCHEDULE 3.8

AMERITECH INTERCONNECTION PERFORMANCE BENCHMARKS

1.0 Trunk Provisioning Intervals

1.1	Number of End Office <u>Trunks Per Order Per Day</u>	<u>Interval</u>
	1-48	14 days
	49-96	15 days
	97 +	Negotiated
1.2	<u>New Trunk Groups to Tandem(s)</u>	Negotiated

2.0 Trunking Grade of Service

Blocking Standards

<u>Traffic Type</u>	<u>Measurement</u>
Exchange Access Final Trunk Group Traffic via Tandems	½ of 1% (0.005)
All Other Final Trunk Group Traffic	1% (0.01)

3.0 Trunk Restoral

<u>Type of Outage</u>	<u>Interval</u>
Service Affecting	within 1 hour
Non-Service Affecting	within 24 hours

The Parties agree that additional Interconnection Performance Benchmarks may be agreed upon by the Implementation Team. However, if any additional Interconnection Performance Benchmarks require a Party to maintain records which it then does not maintain, the Party requesting such new or additional benchmarks shall utilize the Bona Fide Request process to request that the other Party provide such records.

SCHEDULE 6.0

MEET-POINT BILLING RATE STRUCTURE

A. Interstate access - Terminating to or originating from Requesting Carrier Customers served from a Requesting Carrier local exchange End Office.

Rate Element	Billing	Company
CCL		Requesting Carrier
Local Switching		Requesting Carrier
Interconnection Charge		Requesting Carrier
Local Transport (Tandem) Termination		50% Ameritech/ 50% Requesting Carrier
Local Transport (Tandem) Facility		This will be calculated in accordance with MECAB standards, based on applicable V&H coordinates to calculate billing percentages to be applied to the respective Parties <input type="checkbox"/> tariffed rates
Tandem Switching		Ameritech
Entrance Facility		Ameritech

B. Intrastate access - Terminating to or originating from Requesting Carrier Customers served from a Requesting Carrier local exchange End Office.

Rate Element	Billing	Company
CCL		Requesting Carrier
Local Switching		Requesting Carrier
Interconnection Charge		Requesting Carrier
Local Transport (Tandem) Termination		50% Ameritech/ 50% Requesting Carrier

Local Transport (Tandem) Facility

This will be calculated in accordance with MECAB standards, based on applicable V&H coordinates to calculate billing percentages to be applied to the respective Parties' tariffed rates

SCHEDULE 7.1

BILLING AND COLLECTION SERVICES FOR ANCILLARY SERVICES

Please initial one:

_____ Requesting Carrier elects not to be responsible for Ancillary Services Traffic. If Requesting Carrier's Customer utilizes resold lines, Requesting Carrier shall be solely responsible for ordering blocking of such traffic on a per line basis when Requesting Carrier submits an order. If Requesting Carrier's Customer utilizes Unbundled Local Switching ("ULS"), Requesting Carrier shall request blocking when Requesting Carrier submits its order for ULS. Requesting Carrier shall indemnify and hold Ameritech harmless from any Losses arising out of Requesting Carrier's failure to order blocking for resold lines.

Requesting Carrier shall be responsible for Ancillary Service Traffic and agrees to comply with the remaining terms and conditions in this **Schedule 7.1**.

1.0 DEFINITIONS

"555" is a service in which Providers offer information services for a fee to Callers who dial a number using the "555" prefix.

"976" is a service in which Providers offer audio services for a fee to Callers who dial a number using the "976" prefix.

"Abbreviated Dialing" is a service in which Providers offer information services for a fee to Callers who dial a telephone number with less than seven digits.

"Ancillary Services" include Abbreviated Dialing, 555 services, 976 services, CPP Cellular services and CPP Paging services.

"Caller" is the individual or entity placing a call to an Ancillary Service and who thereby agree to pay a charge associated with placing the call.

"Calling Party Pays Cellular" or "CPP Cellular" is a service where a Caller placing a call to a cellular telephone agrees to pay the charges for the call. Typically, an announcement is played to the Caller giving the Caller the option to accept the charges or to end the call without incurring charges.

"Calling Party Pays Paging" or "CPP Paging" is a service where a Caller placing a call to a pager agrees to pay the charges for the call. Typically, an announcement is played to the Caller giving the Caller the option to accept the charges or to end the call without incurring charges.

"Provider" is the entity which offers an Ancillary Service to a Caller.

2.0 BILLING AND COLLECTION SERVICES

2.1 Billing Services

Ameritech will provide Requesting Carrier with formatted records for each Ancillary Service billable call in accordance with each Provider's requested rates as specified in **Exhibit A**. Requesting Carrier shall confirm receipt of such formatted records within twenty-four (24) hours of receipt. Requesting Carrier will render bills on behalf of Ameritech on Requesting Carrier's bills to Requesting Carrier's Customers in accordance with standard Requesting Carrier's billing processes and in the format specified in Exhibit B ("Bill Displays"). Requesting Carrier must bill for all calls using the Ancillary Services when those calls are contained on the formatted records. Requesting Carrier shall bill all calls within thirty (30) days of receiving the tape.

Requesting Carrier must comply with all federal and state requirements applicable to the provision of the Billing Services.

Requesting Carrier will provide Billing and Collection Services to Ameritech for the Ancillary Services described in this Agreement and for additional Ancillary Services that may be developed during the term of this Agreement.

2.2 Collection Services

Requesting Carrier will provide collection services in connection with bills rendered by Requesting Carrier ("Collection Services"). These Collection Services consist of:

- Collecting payments remitted by Requesting Carrier's Customers for calls placed to Ancillary Services billed hereunder;
- Adjusting Customer bills for Ameritech as set forth in Paragraph 6.0 of this **Schedule 7.1**,
- Responding to Customer inquiries and disputes;
- Remitting net proceeds to Ameritech, as provided in Paragraph 5.0 of this **Schedule 7.1**,
- Undertaking preliminary collection activity for delinquent accounts.

When an account being treated for collection by Requesting Carrier remains delinquent in excess of thirty (30) days, or in the event telephone service to a delinquent account is

terminated, Requesting Carrier may, at its sole discretion, adjust the amount due or declare the account uncollectible and remove the delinquent amount from its Customer's bill.

2.3 Administration.

Attached as **Exhibit C** is a description of the process flow, record types, and report format for the Settlement process under this **Schedule 7.1.**

3.0 COMPENSATION TO REQUESTING CARRIER

Ameritech shall pay for the Billing and Collection Services described herein at the rates set forth in Exhibit D.

4.0 CHANGES TO PROVIDER'S SERVICES AND RATES

The amount which a Provider elects to charge those who place calls to an Ancillary Service will be at Provider's sole discretion. Ameritech shall provide to Requesting Carrier information concerning Provider's programs, including but not limited to Provider's name, rates, type of program and tax status. This information shall be provided as described in **Exhibit E.** Requesting's Customers who place calls to a Provider's service will be invoiced monthly for all billable Ancillary calls submitted by Ameritech. The charges for such submitted billable Ancillary Service calls will be shown on the Caller's bill in the format specified in **Exhibit B.**

5.0 SETTLEMENT WITH REQUESTING CARRIER

The amount due to Ameritech shall be the total of all billable charges submitted to Requesting Carrier, less:

- a. All charges due Requesting Carrier under Section 3.0 of this **Schedule 7.1;**
- b. Amounts declared uncollectible as provided in Section 7.0 of this **Schedule 7.1;**
- c. Adjustments as provided in Section 6.0 of this **Schedule 7.1;**
- d. Taxes collected from end user.

Requesting Carrier shall provide Ameritech with monthly reports of amounts billed, amounts collected, amounts adjusted, uncollectible amounts and end user taxes by taxing authority and by Provider including the program number and the amount of taxes applied to the services, as described in **Exhibit C.** The monthly statement is due to Ameritech by the fifth Business Day of every month. Payment amounts owed to Ameritech by Requesting Carrier shall be due

within thirty (30) days from the date of the monthly report. Late charges on past due amounts shall accrue interest at the rate set forth in **Section 11.6** of this Agreement.

Upon termination of this Agreement for any reason, all sums due to Ameritech hereunder shall be immediately due and payable.

6.0 ADJUSTMENTS

Requesting Carrier may remove a disputed charge from a Customer's account within sixty (60) days from the date of the message; provided that notice of the adjustment is given by Requesting Carrier to Ameritech within (60) days from the date of the message. The form and procedure of this notice is specified in **Exhibit F**.

7.0 UNCOLLECTIBLES

Requesting Carrier may recourse to Ameritech an actual uncollectible amount from a Customer's account; provided that notice of the recourse of the uncollectible amount is given by Requesting Carrier to Ameritech within one-hundred twenty (120) days from the date of the message. The form and procedure of this notice is specified in **Exhibit F**.

8.0 TAXES

8.1 Taxes Imposed on Services Performed by Reseller. Requesting Carrier shall be responsible for payment of all sales, use or other taxes of a similar nature, including interest and penalties, imposed on Requesting Carrier's performance of Billing Services and Collection Services under this Agreement.

8.2 Taxes on Ancillary Services. Requesting Carrier shall be responsible for applying taxes as determined by Provider for all Ancillary messages billed hereunder as specified in Exhibit E. Each Provider shall be responsible for determining what taxes apply to the service it provides and for notifying Ameritech of those taxes. Ameritech shall notify Requesting Carrier of this information and pursuant to this Agreement Requesting Carrier shall bill and collect such taxes based on information supplied by Provider and shall remit such taxes to Ameritech. Requesting Carrier shall identify the amount of taxes and type of taxes, by Provider. Ameritech shall then remit such collected taxes to the Provider. Provider shall remit any taxes it owes to the taxing authority.

9.0 BLOCKING

Requesting Carrier shall comply with all federal and state requirements to block Customer access to Ancillary Services upon Customer's request. Requesting Carrier shall also block

Customer access to Ancillary Services upon Ameritech's request, as set forth in the Guidelines.

EXHIBIT A
Daily Usage Information

Ameritech will send daily usage tapes, in EMR standard format, to Reseller containing the following message information for services specified in this agreement:

- date of the call
- calling number
- called number
- duration of call
- charge for the call excluding taxes
- identity of Provider (IP's Pseudo CIC Code as shown on the EMR record, in the CIC Code field, positions 166 and 150-153)

EXHIBIT B
General Guidelines and Bill Displays

General Guidelines:

- (1) Per regulatory guidelines, Provider's itemized call detail need to appear on a separate section or separate page of end user's bill.
- (2) Adjustments must be shown on the end user's bill. Adjustments may be shown as individual line items or as a total adjustment amount.
- (3) The adjustment phrase on the user's bill will read:

976 Information Provider Adj.
Adjustments CPP/C
Adjustments CPP/P
- (4) See Bill Displays on pages 7.1 Ex. B-2 and 7.1, Ex. B-3.

EXHIBIT B
976 Bill Display

(1)

IMPORTANT INFORMATION

Charges for 976 messages are for non-telecommunication services. You have 60 days of this bill to dispute a billing error. You also have the right to withhold payment of the disputed charges during the billing error review. No collection activity for disputed charges will occur while the charges are under investigation. Your local and long distance service cannot be disconnected for non-payment of 976 charges. After investigation if it is determined that the disputed charges are legitimate, the Information Provider may proceed with outside collections against your account. Failure to pay legitimate 900 charges may result in involuntary blocking of access to 976 services. Voluntary blocking of access to 976 services is available upon request from your local Exchange Provider.

(2) No.	(3) Date	(4) Time	(5) Place Called	(6) Number	(7) Code	(8) Min	(9) Amount
976 Calls - (See "Important Information")							
1	5-27	924A	WEATHER IL	312 976 1212		1	.65
2	6-16	1040P	RACINGXTRA IL	312 976 2222		2	1.70
3	6-16	1042P	RACINGXTRA IL	312 976 2222		1	.85
4	6-16	1055P	SPORTSPHN IL	312 976 1313		1	.85
5	6-16	1056P	RACINGXTRA IL	312 976 2222		1	.85
6	6-16	1056P	SPORTSPHN IL	312 976 1313		1	.85
7	6-16	1057P	WEATHER IL	312 976 1212		1	.85
8	6-16	1105P	RACINGXTRA IL	312 976 2222		1	.85
(10) Total 976 Calls							7.65
(11) 976 Information Provider Adj.							0.00

LEGEND:

- | | |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| (1) Important Information = End User's rights for Pay-Per-Call Services. | (7) Code = Not applicable |
| (2) No. = Message Number | (8) MIN. = Length of call in minutes |
| (3) Date = Date of message | (9) Amount = Amount of the Call (rate on daily usage feed) |
| (4) Time = Time of the call | (10) Total 976 Calls = Total Amount due for all 976 calls |
| (5) Place called = Name of 976 Program | (11) Adjustments = Adjustments per line item or total adjustment amount. |
| (6) Number = Telephone Number of 976 Program | |

EXHIBIT B
CPP Cellular and CPP Bill Display

(1) No.	(2) Date	(3) Time	(4) Place Called	(5) Number	(6) Code	(7) Min	(8) Amount
CALLS TO PAGING NETWORK, INC.							
1	12-1	1028A	MOBILE USE CH	312 000 0002	AD	1	.25
2	12-1	1029A	MOBILE USE CH	312 000 0002	AD	1	.25
3	12-1	1029A	MOBILE USE CH	312 000 1234	AD	4	1.00
Subtotal				1.50			
CALLS TO FREEDOM PAGE							
9	12-1	1028A	MOBILE USE CH	312 000 0001	AD	1	.25
10	12-1	1029A	MOBILE USE CH	630 000 1234	AD	1	.25
11	12-1	1029A	MOBLE USE CH	312 000 0001	AD	1	.25
12	12-2	1028A	MOBILE USE CH	312 000 0001	AE	1	.25
(9) Subtotal				1.00			
CALLS TO AMERITECH CELLULAR							
15	12-1	1028A	MOBILE USE CH	708 000 2468	AD	1	.20
16	12-1	1028A	MOBILE USE CH	708 000 1357	AD	1	.20
17	12-1	1028A	MOBILE USE CH	312 000 0009	AD	11	2.20
CALLS TO CELLULAR ONE							
25	12-2	1046A	MOBILE USE CH	312 000 6779	AE	1	.40
26	12-3	1047A	MOBILE USE CH	312 000 6779	AE	3	1.20
Subtotal				1.60			
(10)							
Total Itemized Calls							6.70
(11)							
Adjustments CPP/P							0.00
Adjustments CPP/C							0.25

LEGEND:

- | | |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| (1) No. = Message Number | (7) MIN. = Length of call in units |
| (2) Date = Date of message | (8) Amount = Amount of the Call (rate on daily usage feed) |
| (3) Time = Time of the call | (9) Subtotal = Subtotal Per Provider |
| (4) Place called = MOBILE USE CH | (10) Total Itemized Calls = Total Amount due for all cellular and paging services |
| (5) Number = Called Number | (11) Adjustments = Adjustments per line item or total adjustment amount per service. |
| (6) Code = Code: Time of day
AD = Day
AE = Evening
AN = Night and weekend | |

EXHIBIT C
Settlement Statement Guidelines

- See the 976, CPP/C and CPP/P flow for Resellers
- Separate Settlement Statement required by service type, per state. See Settlement Statement Format on Pages 7 and 8.
- Use Pages 9-14 for data exchange guidelines.
- Use the following information for sending the electronic details, Settlement Statement and payments to Ameritech.

Electronic data:

Arrangements will be worked out with each Reseller based on Reseller's Questionnaire.

Send Settlement Statement to:

AIIS-Billing Operations
804 N. Milwaukee St. - Third Floor
Milwaukee, WI 53202
Tel: (414) 678-3159
Fax: 1-800-858-6960

Bank information:

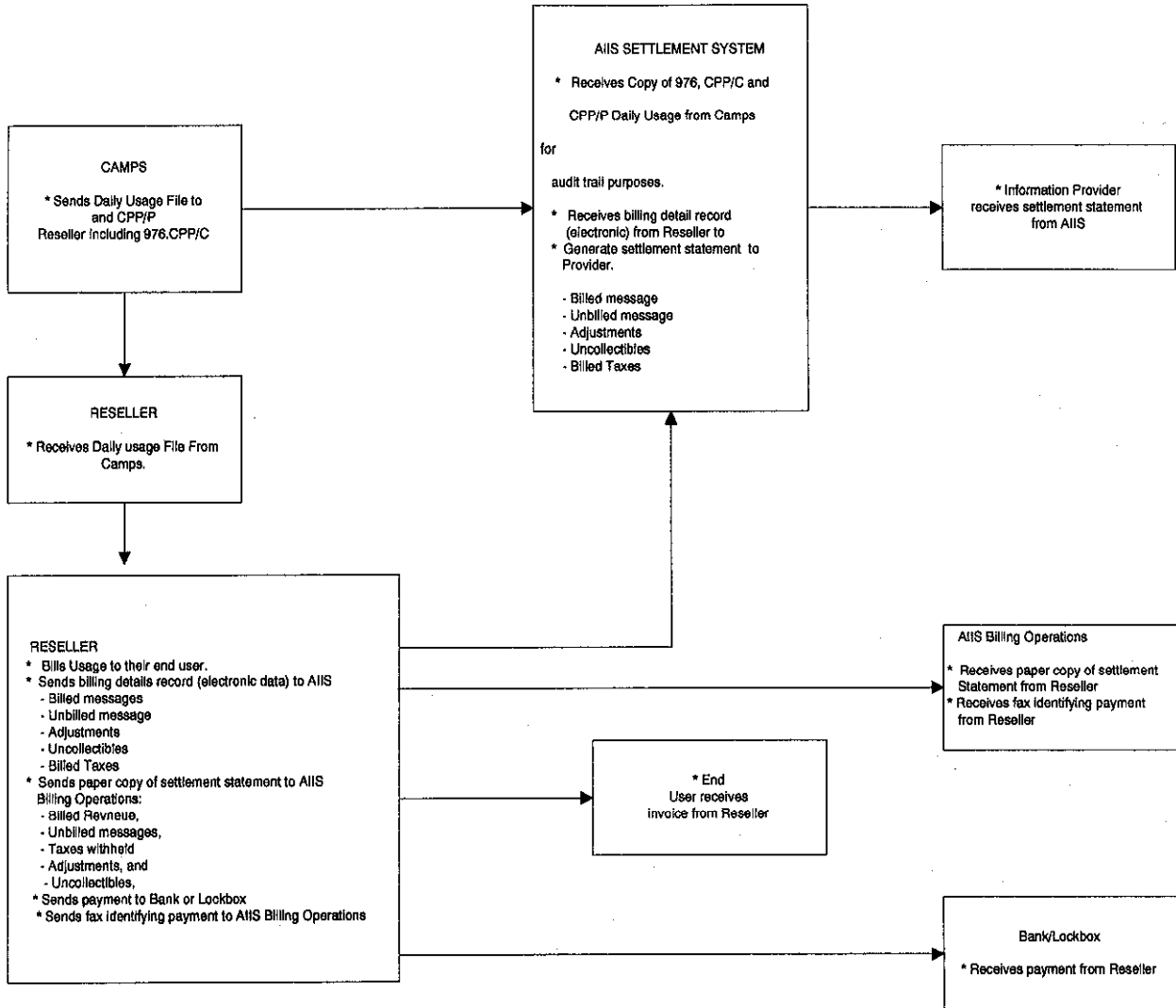
Ameritech-Resale Account
P.O. Box 689775
Milwaukee, WI 53268-9775

Wire Transfer information:

Bank-One Milwaukee
Account Number: 020904860
Reference Lockbox Number: 689775
ABA Routing Number: 075000019

In addition, fax a transmittal referencing lockbox number and service type to AIIS Billing Operations at the address listed above.

Agreement for the Provision of Billing and Collection Services for Ancillary Services Exhibit C



976.CPP/C. and CPP/P Flow For Resellers

EXHIBIT C
Settlement Statement Format

RESELLER NAME
PURCHASE OF ACCOUNTS RECEIVABLES STATEMENT-SERVICE TYPE

CARRIER: Ameritech - IL BILL MONTH: JAN., 1997 PAGE: 1 OF 2 ISSUE DATE: 2/5/97 DUE DATE: 3/5/97		INVOICE NO.: 12345	
1. Total Billed Revenue			
2. Total Billed Taxes	\$1,000.00	\$180.00	
	A. Federal Tax		\$75.00
	Detail by IP		
	IP #1	\$50.00	
	IP #2	\$25.00	
	B. State Taxes		\$40.00
	Detail by IP		
	IP #1	\$30.00	
	IP #2	\$10.00	
	C. Local Taxes		
	Local Tax 1 (Identify Taxing Authority)		
	Detail by IP		
	IP #1	\$10.00	
	IP #2	\$5.00	
	Local Tax 2 (Identify Taxing Authority)		
	IP #1	\$5.00	
	IP #2	\$5.00	
3. Resourced Adjustments/Uncollectibles		\$100.00	\$40.00
	Adjustments		
	Detail by IP		
	IP #1	\$15.00	
	IP #2	\$25.00	\$10.00
	B. Federal Tax		
	Detail by IP		
	IP #1	\$5.00	
	IP #2	\$5.00	
	C. State Taxes		
	Detail by IP		

CARRIER: Ameritech - IL BILL MONTH: JAN., 1997 PAGE: 1 OF 2 ISSUE DATE: 2/5/97 DUE DATE: 3/5/97		INVOICE NO.: 12345	
	IP #1	\$10.00	
	IP #2	\$15.00	\$25.00
	D. Local Taxes		
	Local Tax 1 (Identify Taxing Authority		
	Detail by IP		
	IP #1	\$10.00	
	IP #2	\$5.00	
	Local Tax 2 (Identify Taxing Authority		
	Detail by IP		
	IP #1	\$5.00	
	IP #2	\$5.00	
4. Adjust IP #1			
5. Late P IP #2 \$1,080.00			
6. Net Due (Line 4+5) \$50.00 \$1,130.00			
7. Billing Service Charge (7D*\$.03) (\$295.35)			
		10,000	
	A. Total Messages	(5)	
	B. Duplicate Messages	(150)	
	C. Unbilled Messages	9,845	
8. Total A	D. Actual Messages Billed	\$834.65	

LEGEND:

- (1) Carrier = Ameritech - (State), State = IL, IN, MI, OH, WI
- (2) Invoice No. = ?
- (3) IP#N = Information Provider Name

EXHIBIT C
Record Types for Data Exchange

Record Type	CPP	PPP	976
DAILY USAGE TO CLEC	010133	010133	010116
HEADER	202201	202201	202201
TRAILER	202202	202202	202202
BILL REVENUE OR UNBILLABLE USAGE FROM CLEC	010133	010133	010116
HEADER	202203	202203	202203
TRAILER	202204	202204	202204
ADJUSTMENTS/UNCOLLECTIBLES FROM CLEC	450133	450133	4500116
HEADER	202219	202219	202219
TRAILER	202220	202220	202220
TAX SUMMARY FROM CLEC	RITR01	RITR01	RITR01
HEADER	202203	202203	202203
TRAILER	202204	202204	202204

A copy of all messages received by the Reseller from CAMPS for end-user billing of Ancillary Services should be sent to AIIS with the Return Code (pos. 70-71) populated with one of the Bellcore standard values. Some expected values to be used in this case are:

- 00 - no return code; the call was billed to the end-user
- 06 - the end Customer has already been disconnected
- 09 - other; there is no return code to match the reason
- 10 - the Customer does not belong to the CLEC receiving the
billing record
- 38 - the Customer has uncollectible final account status
- 39 - duplicate record
- 40-99 represent invalid or unreadable formatting in the records;
refer to Bellcore guide (may use 40 for all if guide is unavailable)

EXHIBIT C

Record Types for Data Exchange

Those messages returned with value 00 are expected to have been used in the calculations of the Total Billed Revenue on the Purchase of Accounts Receivable Statements. Those with values greater than 00 are counted on the statements as Unbilled Messages. All messages for all statements for the for a specific Issue Date may be placed in one file with the header and trailer given above unless the file exceeds 100,000 records.

The Reseller must populate these fields in the 202203 and 202219 headers:

- Record ID
- Date Created
- Invoice Number (2-digit sequence number per dataset name for tracking missing files)
- Local IC Info (pos. 40-46) must contain the Reseller's ID:
 - the ACNA in positions 40-42
 - the CIC in positions 43-45
 - space filler in position 46
- Reserved area at positions 123-127 must contain the last five digits of the Invoice Number of the Purchase of Accounts Receivable Statements
- Host Receipt Date (pos. 129-134) must match the issue Date of the Purchase of Accounts Receivable Statements

The Reseller must populate these fields in the 202204 and 202220 trailers.

- Record ID
- Date Created
- Grand Total Count (pos. 111-117) must contain the number of records or messages in the file not including the header or trailer.

Adjustments and Uncollectible billed charges must be returned in record types 450133 and 450116. These are 175 byte records with an added module containing billing name and address information. The following fields must be populated in these records (here we are employing non-standard use of some of the data fields):

- Record ID
- Date Created
 - From Number
- Customer Code (if applicable)
- To Number
 - Customer Code (if applicable)
 - Adjustment Amount (signed decimal field)
 - Connect Time (or original call)
 - Connect Date (of original call; use Date of Record field)
 - Adjustment Reason (extended into from OCN field) as:

1. Adjustment Reason (pos. 70-71) values

A = adjustments

U = uncollectible/writeoff

2. Adjustment Type (pos. 72-74) values:

CNC = Call not completed

CTO = Cut off

DAK = Denies all knowledge (see Reason Code
Modified blow)

INR = Incorrect rate

PTR = Poor transmission

RCG = Rebill

SIA = Uncollectible final bill

TNC = Disputed call duration

WNO = Wrong number reached

3. Adjustment Type Modifier (pos. 75); only used when
Adjustment Type is DAK, values

A = Refusal to pay

D = Denies all knowledge - other

E = Duplicate billing

F = Fraud

L = PIC change not authorized

M = Misquoted charges

S = Customer unaware of info service charges

T = Paid directly to provider

U = Misleading advertising, info service

V = Never received info or offering, product damaged or
poor quality

- Non-published indicator (use pos. 76 of From OCN field)

- N = Customer's number is not published

- P = Customer's number is published

- Billing Number

- Billed Date

- Settlement Period (Issue Date of PAR)

- Indicator 14 should have value of '5' to indicate the
existence of Mobile 006-A

- Billing Name and address Module 006-A (starts at position 176)
following exhibit C-2
- Ending Module 999-A

Billed and adjusted taxes are to be returned in record types RITR01. (Format TBD)

Billing Name and Address

Module 006-A

001	0	Number	Module ID	X
002	0			
003	6			
004	A	Version		
005	1	Module Length		9
006	3			
007	4			
008	Name/Address Indicator			9
009				
010	Billing Name			X
--				
034				
035	Billing Name/Address			X
--				
059				
060	Billing Name/Address			X
--				
084				
085	Billing Name/Address			X
--				
109				
110	Post Office, State Zip Code			X
--				
134				

Field Characteristics

9 - Numeric

X - Alphanumeric

Module Description

A 134-position module consisting of a 2-digit **Name/Address Indicator**, a 25 position **Billing Name** field, two 25-position **Billing Name/Address** fields, a 25-position **Billing Address** and a 25 position **Post Office, State, ZIP Code** field

This module is designed for use whenever a billing name and address must be associated with a record (e.g., billing name and address associated with a post-billing adjustment).

The content of this module

21 = Name 1, Post Office 5

23 = Name 1, Name/Address 2, Name/Address 3, Post Office 5
 27 = Name 1, Name/Address 2, Name/Address 3, Address 4, Post Office 5
 37 = Name 1, Name/Address 2, Name/Address 3, Address 4, Post Office 5

NOTE:

Fields not used will be overlaid with next used field. For example, if Name/Address 2, Name/Address 3, and Address 4 are not used, Post Office 5 will be in the second field (Name/Address 2) and the Name/Address Indicator will be set to 21.

The **Name/Address Indicator** is numeric.

The **Billing, Name, Billing Name/Address, Billing Address** and **Post Office, State, Zip Code** fields are to be alphanumeric, left justified, with trailing blanks.

End of Modules

Module 999-A

001	9	Number	Module ID	X
002	9			
003	9			
004	A	Version		

Field Characteristics

9 - Numeric

X - Alphanumeric

Module Description

A 4-position module indicating that there are no more modules appended to this record.

This module must be placed at the end of a record which contains at least one module.

EXHIBIT D
Reseller Compensation

Rate per billed message:

\$0.03

EXHIBIT E
Provider's Information

Initial Notification:

Ameritech will fax a copy of the 976, CPP/C, CPP/P Sponsor and Program List to Reseller within three (3) business days of receiving the following information. Fax completed page to the Resale Service Center at 1-800-260-5480.

Reseller _____

Contact Name _____

Fax Number _____

Pager Number _____

Address _____

City/State _____

Zip Code _____

NOTE: Call the Resale Service Center at 1-800-924-3666 with questions regarding Sponsors and Program Lists.

Updates:

Ameritech will fax to the Reseller 976, CPP/C, CPP/P Program changes, additions and/or deletions as they become available.

EXHIBIT F
General Information

- ! Optional Blocking is available to consumer and business Customers that want the capability to block direct calls to Provider's services covered in this Schedule.
- ! Customers attempting to reach program from accounts where blocking has been established will reach a recording informing them that the call cannot be completed.
- ! Adjustments - a dollar amount, either partial or full, that is credited to a Customers account. The primary reason for adjustments are typically Customers denying the call was made from their phone.
- ! Uncollectible - the amount of a callers phone bill that has undeniable charges that have never been paid by the caller. Undeniable charges are determined by the state regulatory commissions and are typically Pay-Per-Call services. When a caller's service is being terminated for non-payment, the Pay-Per-Call charges are written off as uncollectible and passed back to the Information Provider. The remainder of the bill is what must be paid by the caller to reinstate their service.
- ! Access to 976 service is prohibited by tariff from providing Group Access Bridging (GAB) services whereby a caller can be connected to parties other than the IP for the purpose of establishing a conference call.
- ! Collect, operator assisted, calling card, and person-to-person calls to 976 are not allowed.
- ! Collect and person-to-person calls to CPP/C and CPP/P are not allowed.
- ! Calls from WATS, hotel/motel, Ameritech Public/semi-public telephones and lines with Call Blocking will not be allowed to 976 service.
- ! 976 Call Blocking should not be added to accounts that have Consumer/Business Toll Restrictions.
- ! Call Blocking will be provided only where CO facilities permit.
- ! Call Blocking may not be limited to specific programs.
- ! Call Blocking does not block calls to other telephone companies' numbers.
- ! Call Blocking does to block long distance charges.

- ! Reseller reserve the right to provide to the general public, upon request, the complete name, address, and telephone number of the Information Providers in response to inquiries and comments referring to the Information Provider's service.
- ! The first time an end user specifically disputes Pay-Per-Call charges, end user must be informed of the availability of Call Blocking and disputed charges are adjusted accordingly on end user's bill. Inform end user that the Information Provider may pursue collection of charges directly with end user.
- ! After the end user specifically disputes charges, inform end user that mandatory blocking will be established on end user's line and disputed amount is adjusted accordingly on end user's bill. Inform end user that the Information Providers may pursue collection of charges directly with end user.
- ! Adjustments granted as the result of refusal to pay, denies all knowledge, unsatisfactory payment arrangements, etc., should be classified as an uncollectible adjustment and blocking should be established after second request.
- ! On the database, call adjustments granted as the result of poor transmission, call not completed or calls completed due to company failure to establish blocking, such as service order issued incorrectly, should be classified as correct charges on the Ameritech entity code (R or NBT).
- ! Blocking must be imposed on those Customers who refuse to pay legitimate Pay-Per-Call charges.

Tandem Switching Ameritech

Entrance Facility Ameritech